

# Unitats

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## Introducció

CSS tiene varias unidades diferentes para expresar una longitud.

Muchas propiedades CSS toman valores de "longitud", como ancho, margen, relleno, tamaño de fuente, etc.

La longitud es un número seguido de una unidad de longitud, como 10px, 2em, etc.

## Absolute lengths

Unit	Description	
cm	centimeters	<a href="#">Try it</a>
mm	millimeters	<a href="#">Try it</a>
in	inches (1in = 96px = 2.54cm)	<a href="#">Try it</a>
px *	pixels (1px = 1/96th of 1in)	<a href="#">Try it</a>
pt	points (1pt = 1/72 of 1in)	<a href="#">Try it</a>
pc	picas (1pc = 12 pt)	<a href="#">Try it</a>

Fes proves:

[https://www.w3schools.com/css/css\\_units.asp](https://www.w3schools.com/css/css_units.asp)

# Relative Lengths

Les unitats de longitud relativa s'escala millor entre diferents mitjans de representació, com mobiles, tabletas ...

Unit	Description	
em	Relative to the font-size of the element (2em means 2 times the size of the current font)	<a href="#">Try it</a>
ex	Relative to the x-height of the current font (rarely used)	<a href="#">Try it</a>
ch	Relative to width of the "0" (zero)	<a href="#">Try it</a>
rem	Relative to font-size of the root element	<a href="#">Try it</a>
vw	Relative to 1% of the width of the viewport*	<a href="#">Try it</a>
vh	Relative to 1% of the height of the viewport*	<a href="#">Try it</a>
vmin	Relative to 1% of viewport's* smaller dimension	<a href="#">Try it</a>
vmax	Relative to 1% of viewport's* larger dimension	<a href="#">Try it</a>
%	Relative to the parent element	<a href="#">Try it</a>

Fes proves:

[https://www.w3schools.com/css/css\\_units.asp](https://www.w3schools.com/css/css_units.asp)

## em

La unitat em es defineix com la mida de font actual. Així, per exemple, si establis una mida de lletra a l'element del cos, el valor em de qualsevol element fill dins del cos serà igual a aquesta mida de lletra.

```
<!DOCTYPE html>
<html>
<head>
<style>
p {
  font-size: 16px;
  /* (2em significa una alçada 2 vegades la mida de la font actual) */
  line-height: 2em;
}

div {
  font-size: 30px;
  border: 1px solid black;
}
```

```

/* si span esta a dins del div, 0.5 indica una mida de 0.5 x 30 */
span {
  font-size: 0.5em;
}
</style>
</head>
<body>
<p>These paragraphs have a calculated line-height of: 2x16px = 32px</p>
<p>These paragraphs have a calculated line-height of: 2x16px = 32px</p>
<p>These paragraphs have a calculated line-height of: 2x16px = 32px</p>
<div>The font-size of the div element is set to 30px. <span>The span element
inside the div element has a font-size of 0.5em, which equals to 0.5x30 =
15px</span></div>
</body>
</html>

```

## rem

La "r" en rem significa "arrel"; això és igual a la mida de font establerta a l'element arrel; en la majoria dels casos, aquest és l'element html o body.

```

<!DOCTYPE html>
<html>
<head>
<style>
body {
  font-size: 16px;
}

div {
  font-size: 2rem;
  border: 1px solid black;
}
</style>
</head>
<body>
<p>The font-size of this document is 16px</p>
<div>The font-size of this div element is 2rem.</div>
<p>The rem unit sets the font-size relative to the browsers base font-size, and
will not inherit from its parents</p>
</body>
</html>

```

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v1.0

## %

Relative to the parent element

```
<!DOCTYPE html>
<html>
<head>
<style>
body {
  font-size:16px;
}

div {
  font-size: 150%;
  border: 1px solid black;
}

</style>
</head>
<body>
<p>The font-size of this document is 16px.</p>
<div>The font-size of this div element is 150%.</div>
<p>The % unit sets the font-size relative to the current font-size.</p>
</body>
</html>
```

## Referencies

Per saber més sobre unitats relatives

<https://thecssworkshop.com/lessons/relative-units>

Per saber més sobre les diferents unitats

<https://webdesign.tutsplus.com/articles/7-css-units-you-might-not-know-about--cms-22573>

W3School

[https://www.w3schools.com/css/css\\_units.asp](https://www.w3schools.com/css/css_units.asp)